

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	"auxiliary capacitor" and 345/57-100.ccls. and "chiral smectic"	US-PGPUB; USPAT	OR	OFF	2007/03/19 15:16
L2	345	345/57-100.ccls. and "chiral smectic"	US-PGPUB; USPAT	OR	OFF	2007/03/19 15:16
L3	175	345/97.ccls. and "chiral smectic"	US-PGPUB; USPAT	OR	OFF	2007/03/19 15:16
L4	0	"auxiliary capacitor" and 345/97.ccls. and "chiral smectic"	US-PGPUB; USPAT	OR	OFF	2007/03/19 15:16
L5	4	"auxiliary capacitor" and 345/97.ccls.	US-PGPUB; USPAT	OR	OFF	2007/03/19 15:16
L6	44	((RUMO) near2 (SATAKE)).INV.	US-PGPUB; USPAT	OR	ON	2007/03/19 15:26
S1	92	(LCD or "liquid crystal display") same "chiral smectic phase"	US-PGPUB; USPAT	OR	OFF	2007/03/19 12:09
S2	1	"5214523".pn. and (film or orientation)	US-PGPUB; USPAT	OR	OFF	2005/11/28 11:22
S3	1	"5214523".pn. and (film or orientation or alignment)	US-PGPUB; USPAT	OR	OFF	2005/11/28 16:19
S4	0	"chiral smectic phase" and capacitor.clm.	US-PGPUB; USPAT	OR	OFF	2005/11/28 16:20
S5	0	"chiral smectic phase" and capacitor	US-PGPUB; USPAT	OR	OFF	2005/11/28 16:20
S6	0	"chiral smectic phase" and capacitor.clm.	US-PGPUB; USPAT	OR	OFF	2005/11/28 16:20
S7	8	"chiral smectic phase"	US-PGPUB; USPAT	OR	OFF	2005/11/28 16:22
S8	0	"chiral smectic" and capacitor.clm.	US-PGPUB; USPAT	OR	OFF	2005/11/28 16:22
S9	3	"chiral smectic phase" and capacitor.clm.	US-PGPUB; USPAT	OR	OFF	2005/11/28 17:19
S10	17	"chiral smectic" and capacitor.clm.	US-PGPUB; USPAT	OR	OFF	2005/11/28 17:19
S11	1	"20040212632".pn.	US-PGPUB; USPAT	OR	OFF	2005/11/29 15:38
S12	1	"4976515".pn.	US-PGPUB; USPAT	OR	OFF	2007/02/02 13:21
S13	199	"auxiliary capacitor" and 345/57-100.ccls.	US-PGPUB; USPAT	OR	OFF	2006/07/10 09:22
S14	0	"auxiliary capacitor" and 345/57-100.ccls. and "chiral smectic"	US-PGPUB; USPAT	OR	OFF	2007/03/19 15:16
S15	0	"auxiliary capacitor" and "chiral smectic"	US-PGPUB; USPAT	OR	OFF	2006/07/09 19:47

## EAST Search History

S16	0	"auxiliary capacitor" and chiral and smetic	US-PGPUB; USPAT	OR	OFF	2006/07/09 19:47
S17	7	"auxiliary capacitor" and chiral	US-PGPUB; USPAT	OR	OFF	2006/07/09 19:50
S18	2	"thresholdless" and "chiral smetic"	US-PGPUB; USPAT	OR	OFF	2006/07/09 19:54
S19	86	"thresholdless" and "chiral smectic"	US-PGPUB; USPAT	OR	OFF	2006/07/09 19:54
S20	7	"thresholdless" same "chiral smectic"	US-PGPUB; USPAT	OR	OFF	2006/07/09 20:02
S21	1	"5214523".pn.	US-PGPUB; USPAT	OR	OFF	2006/07/09 19:57
S22	0	"thresholdless" same (("chiral smectic" or SmC) adj phase)	US-PGPUB; USPAT	OR	OFF	2006/07/09 20:03
S23	799	((("chiral smectic" or SmC) adj phase)	US-PGPUB; USPAT	OR	OFF	2006/07/09 20:03
S24	745	((("chiral smectic" or SmC) adj phase) and (ferroelectric or antiferroelectric)	US-PGPUB; USPAT	OR	OFF	2006/07/09 20:04
S25	1358	((("chiral smectic" or SmC) adj2 phase) and (ferroelectric or antiferroelectric)	US-PGPUB; USPAT	OR	OFF	2006/07/09 20:05
S26	745	((("chiral smectic" or SmC) adj phase) and (ferroelectric or antiferroelectric)	US-PGPUB; USPAT	OR	OFF	2006/07/09 20:05
S27	494	((("chiral smectic" or SmC) adj phase) same (ferroelectric or antiferroelectric)	US-PGPUB; USPAT	OR	OFF	2006/07/09 20:05
S28	446	((("chiral smectic" or SmC) adj phase) same (ferroelectric or antiferroelectric) same "liquid crystal"	US-PGPUB; USPAT	OR	OFF	2006/07/09 20:06
S29	52	((("chiral smectic" or SmC) adj phase) same (ferroelectric or antiferroelectric) same "liquid crystal" same threshold\$4	US-PGPUB; USPAT	OR	OFF	2006/07/09 20:11
S30	406	"ferroelectric liquid crystal" same "chiral smectic phase"	US-PGPUB; USPAT	OR	ON	2006/07/09 20:12
S31	277	"ferroelectric liquid crystal" with "chiral smectic phase"	US-PGPUB; USPAT	OR	ON	2006/07/09 20:12
S32	4	"ferroelectric liquid crystal" with "chiral smectic phase" with threshold\$4	US-PGPUB; USPAT	OR	ON	2006/07/09 20:33
S33	277	"ferroelectric liquid crystal" with "chiral smectic phase"	US-PGPUB; USPAT	OR	ON	2006/07/09 20:41
S34	1079	"chiral smectic liquid crystal"	US-PGPUB; USPAT	OR	ON	2006/07/09 20:42
S35	60	"chiral smectic liquid crystal".ti.	US-PGPUB; USPAT	OR	ON	2006/07/09 20:42
S36	15	"auxiliary capacitor" and 345/57-100. ccls. and ferroelectric	US-PGPUB; USPAT	OR	OFF	2006/07/10 10:18

## EAST Search History

S37	1	"5214523".pn.	US-PGPUB; USPAT	OR	OFF	2006/07/10 10:18
S38	29	"V shaped electrooptical"	US-PGPUB; USPAT	OR	OFF	2007/02/02 17:16
S39	0	09/716885	US-PGPUB; USPAT	OR	OFF	2007/02/02 15:44
S40	14	"4976515".uref.	US-PGPUB; USPAT	OR	OFF	2007/02/02 16:19
S41	0	S40 and S38	US-PGPUB; USPAT	OR	OFF	2007/02/02 15:44
S42	1	"5,594,569".pn.	US-PGPUB; USPAT	OR	OFF	2007/02/02 16:38
S43	310	"thresholdless antiferroelectric"	US-PGPUB; USPAT	OR	OFF	2007/02/02 16:39
S44	185	"thresholdless antiferroelectric" and transmittance	US-PGPUB; USPAT	OR	OFF	2007/02/02 16:40
S45	170	"thresholdless antiferroelectric" and transmittance and (gradation or gray)	US-PGPUB; USPAT	OR	OFF	2007/02/02 17:12
S46	10	"thresholdless antiferroelectric" and transmittance and (gradation or gray). ab.	US-PGPUB; USPAT	OR	OFF	2007/02/02 16:43
S47	5	"thresholdless antiferroelectric" and transmittance and (gradation or gray) and (reset with black)	US-PGPUB; USPAT	OR	OFF	2007/02/02 17:13
S48	5	"V shaped electrooptical" and reset	US-PGPUB; USPAT	OR	OFF	2007/02/02 18:05
S49	53	345/89.ccls. and 345/97.ccls.	US-PGPUB; USPAT	OR	OFF	2007/02/02 18:05
S50	1	"6459416".pn.	US-PGPUB; USPAT	OR	OFF	2007/02/05 15:15
S51	95	(LCD or "liquid crystal display") same "chiral smectic phase"	US-PGPUB; USPAT	OR	OFF	2007/02/05 17:25
S52	39	(gray or gradation) and ((LCD or "liquid crystal display") same "chiral smectic phase" )	US-PGPUB; USPAT	OR	OFF	2007/02/05 17:26
S53	26	("20020109659" "4776676" "4840462" "4976515" "5214523" "5349367" "5594569" "5598284" "5615027" "5617229" "5643826" "5796380" "5847799" "5877738" "5923962" "5953002" "6046790" "6057824" "6069604" "6122034" "6139927" "6292183" "6323850" "6339416" "6392624" "6545656").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/19 12:09